

Art Unit: 1600

CLAIM'S PTO

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5/10/05

REISSUE

CLAIM 1 IS AMENDED

1. (Amended) A method of alleviating downturn of corners² of a patient's mouth comprising:

[b)] locating a depressor anguli oris (DAO) muscle adjacent each corner of said mouth; and

[c)] injecting into a DAO adjacent each corner of the mouth, a quantity of [Botulnum] Botulinum toxin (BTX) sufficient to cause paralysis of a DAO.

2. The method of claim 1 wherein the quantity of BTX injected into each DAO is about 3-5 Unit equivalents.

3. The method of claim 2 wherein the BTX is *Botulinum-A* toxin.

10 4. The method of claim 1 wherein the quantity of BTX injected into each DAO is adjusted to compensate for symmetry of the mouth.

CLAIM 5 IS AMENDED

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5. (Amended) A method for providing a facial cosmetic benefit to a human, comprising:

bilaterally injecting an amount of a Botulinum toxin to depressor anguli oris (DAO) muscles of a human patient, the amount of Botulinum toxin being effective to treat downturn of corners of a patient's mouth.

6. The method of claim 5, wherein the Botulinum toxin is Botulinum-A toxin.

CLAIM 7 IS CANCELLED

CLAIMS 8 AND 9 ARE AMENDED

8. (Amended) The method of claim 5, wherein the Botulinum toxin is injected without being administered to the orbicularis oris muscle surrounding the mouth.

9. (Amended) The method of claim 5, wherein the injection of Botulinum toxin is effective to alleviate wrinkles located near the mouth.

10. The method of claim 5, wherein the amount of Botulinum toxin is between about 2 units and about 5 units.

CLAIMS 11 AND 12 ARE AMENDED

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11. (Amended) The method of claim 5, further comprising injecting an orbicularis oris muscle with a total dose of botulinum toxin in the order of 4 units for the entire upper lip.

12. (Amended) The method of claim 5, further comprising locating a depressor anguli oris (DAO) muscle before injecting the Botulinum toxin.

13. The method of claim 5, further comprising a step of laser resurfacing tissue in proximity to the mouth.

14. The method of claim 5, further comprising a step of filling soft tissue in proximity to the mouth.

CLAIM 15 IS AMENDED

15. (Amended) A method of alleviating severe upper lip wrinkles of a patient, comprising:

injecting a small amount of a botulinum toxin into the orbicularis oris muscle in proximity to an upper lip of a human afflicted with severe upper lip wrinkles in conjunction with a treatment of Marionette lines and sad mouth by injection of a botulinum toxin into each depressor anguli oris muscle, the total amount of the botulinum toxin being on the order of 4 Units for the entire upper lip, thereby alleviating the severe upper lip wrinkles.

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16. The method of claim 15, wherein the Botulinum toxin is a botulinum-A toxin.

17. The method of claim 15, wherein the amount of botulinum toxin injected is at least about 2 units.

18. The method of claim 15, wherein the amount of botulinum toxin injected is at least about 3 units.

19. The method of claim 15, wherein the amount of botulinum toxin injected is in a range of about 2 units to about 5 units.

20. The method of claim 15, wherein the amount of botulinum toxin injected is in a range of about 3 units to about 5 units.

21. The method of claim 15, wherein the quantity of Botulinum toxin is on the order of 4 Units.

22 The method of claim 15, wherein only the orbicularis oris muscle in proximity to the upper lip is injected.

CLAIM 23 IS CANCELLED

CLAIM 24 IS AMENDED

24. (Amended) The method of claim 15, further comprising locating the DAO muscle before injecting the Botulinum toxin to the DAO muscle.

CLAIM 25 IS CANCELLED

26. The method of claim 15, further comprising at least one step selected from the group consisting of laser resurfacing tissue in proximity to the mouth, and filling soft tissue in proximity to the mouth.

27. A method of alleviating downturn of corners of a patient's mouth comprising:

injecting into a depressor anguli oris (DAO) muscle adjacent each corner of the mouth, a quantity of Botulinum toxin sufficient to cause paralysis of a DAO.

28. The method of claim 27, wherein the botulinum toxin is Botulinum-A toxin.

29. The method of claim 27, wherein the quantity of Botulinum toxin is between about 2 units and about 5 units.

CLAIM 30 IS CANCELLED

30. (Amended) The method of claim 27, further comprising injecting on the order of 4 units of a Botulinum toxin to an upper lip region located above the patient's mouth.

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In FIG. 2, region(s) 6 bounded by dashed lines illustrate the general location on the patient's skin which overlie the DAO. Suitable injection sites include the areas within region (s) 6 that are marked with a "X".

All publications referred to herein are hereby incorporated by reference. While the following claims are intended to recite the features of the invention, it will be apparent to those of skill in the art that certain changes may be made without departing from the scope of this invention.

We claim:

1. A method of alleviating downturn of corners of a patient's mouth comprising:

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b) locating a depressor anguli oris (DAO) muscle adjacent each corner of said mouth; and

c) injecting into a DAO adjacent each corner of the mouth, a quantity of Botulnum toxin (BTX) sufficient to cause paralysis of a DAO.

2. The method of claim 1 wherein the quantity of BTX injected into each DAO is about 3-5 Unit equivalents.

3. The method of claim 2 wherein the BTX is *Botulinum-A* toxin.

4. The method of claim 1 wherein the quantity of BTX injected into each DAO is adjusted to compensate for symmetry of the mouth.

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